

7360-7384, 7832-7857, 8844-8869, 7629-7647, or 8224-8242 of the *env* gene of HIV-1 Bru;

nucleotides 6930-6905, 7384-7360, 7857-7832, 8869-8844, and 8242-8224 of a nucleic acid sequence complementary to the *env* gene of HIV-1 Bru, or a nucleotide sequence of a virus of the HIV-1 group that corresponds to any one of nucleotides 6930-6905, 7384-7360, 7857-7832, 8869-8844, or 8242-8224 of a nucleic acid sequence complementary to the *env* gene of HIV-1 Bru;

nucleotides 6903-6928, 7053-7075, 7349-7373, 7821-7846, 7612-7630, 8213-8231, and 8836-8861 of the *env* gene of HIV-1 Mal, or a nucleotide sequence of a virus of the HIV-1 group that corresponds to any one of nucleotides 6903-6928, 7053-7075, 7349-7373, 7821-7846, 7612-7630, 8213-8231, or 8836-8861 of the *env* gene of HIV-1 Mal;

nucleotides 6928-6903, 7373-7349, 7846-7821, 8861-8836, and 8231-8213 of a nucleic acid sequence complementary to the *env* gene of HIV-1 Mal, or a nucleotide sequence of a virus of the HIV-1 group that corresponds to any one of nucleotides 6928-6903, 7373-7349, 7846-7821, 8861-8836, or 8231-8213 of a nucleic acid sequence complementary to the *env* gene of HIV-1 Mal;

nucleotides 6860-6885, 7010-7032, 7306-7330, 7775-7800, 8787-8812, 7572-7590, and 8167-8185 of the *env* gene of HIV-1 Eli, or a nucleotide sequence of a virus of the HIV-1 group that corresponds to any one of nucleotides 6860-6885, 7010-7032, 7306-7330, 7775-7800, 8787-8812, 7572-7590, or 8167-8185 of the *env* gene of HIV-1 Eli; and

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nucleotides 6885-6860, 7330-7306, 7800-7775, 8812-8787, and 8185-8167 of a nucleic acid sequence complementary to the *env* gene of HIV-1 Eli, or a nucleotide sequence of a virus of the HIV-1 group that corresponds to any one of nucleotides 6885-6860, 7330-7306, 7800-7775, 8812-8787, or 8185-8167 of a nucleic acid sequence complementary to the *env* gene of HIV-1 Eli.

35. The purified polynucleotide of claim 34, wherein the polynucleotide is selected from the group consisting of:

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nucleotides 6905-6930, 7055-7077, 7360-7384, 7832-7857, 8844-8869, 7629-7647, and 8224-8242 of the *env* gene of HIV-1 Bru, or a nucleotide sequence of a virus of the HIV-1 group that corresponds to any one of nucleotides 6905-6930, 7055-7077, 7360-7384, 7832-7857, 8844-8869, 7629-7647, or 8224-8242 of the *env* gene of HIV-1 Bru;

nucleotides 6903-6928, 7053-7075, 7349-7373, 7821-7846, 7612-7630, 8213-8231, and 8836-8861 of the *env* gene of HIV-1 Mal, or a nucleotide sequence of a virus of the HIV-1 group that corresponds to any one of nucleotides 6903-6928, 7053-7075, 7349-7373, 7821-7846, 7612-7630, 8213-8231, or 8836-8861 of the *env* gene of HIV-1 Mal; and

nucleotides 6860-6885, 7010-7032, 7306-7330, 7775-7800, 8787-8812, 7572-7590, and 8167-8185 of the *env* gene of HIV-1 Eli, or a nucleotide sequence of a virus of the HIV-1 group that corresponds to any one of nucleotides 6860-6885, 7010-7032, 7306-7330, 7775-7800, 8787-8812, 7572-7590, or 8167-8185 of the *env* gene of HIV-1 Eli.

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36. The polynucleotide according to claim 35, wherein the polynucleotide is selected from the group consisting of:

nucleotides 6905-6930, 7055-7077, 7360-7384, 7832-7857, 8844-8869, 7629-7647, and 8224-8242 of the *env* gene of HIV-1 Bru;

nucleotides 6903-6928, 7053-7075, 7349-7373, 7821-7846, 7612-7630, 8213-8231, and 8836-8861 of the *env* gene of HIV-1 Mal; and

nucleotides 6860-6885, 7010-7032, 7306-7330, 7775-7800, 8787-8812, 7572-7590, and 8167-8185 of the *env* gene of HIV-1 Eli.

37. The polynucleotide according to claim 34, wherein the polynucleotide is selected from the group consisting of:

nucleotides 6905-6930, 7055-7077, 7360-7384, 7832-7857, 8844-8869, 7629-7647, and 8224-8242 of the *env* gene of HIV-1 Bru;

nucleotides 6930-6905, 7384-7360, 7857-7832, 8869-8844, and 8242-8224 of a nucleic acid sequence complementary to the *env* gene of HIV-1 Bru;

nucleotides 6903-6928, 7053-7075, 7349-7373, 7821-7846, 7612-7630, 8213-8231, and 8836-8861 of the *env* gene of HIV-1 Mal;

nucleotides 6928-6903, 7373-7349, 7846-7821, 8861-8836, and 8231-8213 of a nucleic acid sequence complementary to the *env* gene of HIV-1 Mal;

nucleotides 6860-6885, 7010-7032, 7306-7330, 7775-7800, 8787-8812, 7572-7590, and 8167-8185 of the *env* gene of HIV-1 Eli; and

nucleotides 6885-6860, 7330-7306, 7800-7775, 8812-8787, and 8185-8167 of a nucleic acid sequence complementary to the *env* gene of HIV-1 Eli.--

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